

Materials List for:

Generating CRISPR/Cas9 Mediated Monoallelic Deletions to Study Enhancer Function in Mouse Embryonic Stem Cells

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Materials

Name	Company	Catalog Number	Comments
Phusion High-Fidelity DNA Polymerase	NEB	M0530S	high fidelity DNA polymerase used in gRNA assembly
Gibson Assembly Master Mix	NEB	E2611L	
gRNA_Cloning Vector	Addgene	41824	A target sequence is cloned into this vector to create the gRNA plasmid
pCas9_GFP	Addgene	44719	Codon-optimized SpCas9 and EGFP co-expression plasmid
AflIII	NEB	R0520S	
EcoRI	NEB	R3101S	
Neon Transfection System 100 µL Kit	Life Technologies	MPK10096	Microporator transfection technology
prepGEM	ZyGEM	PT10500	genomic DNA extraction reagent
Nucleo Spin Gel & PCR Clean-up	Macherey-Nagel	740609.5	
High-Speed Plasmid Mini Kit	Geneaid	PD300	
Maxi Plasmid Kit Endotoxin Free	Geneaid	PME25	
SYBR select mix for CFX	Life Technologies	4472942	qPCR reagent
iScript cDNA synthesis kit	Bio-rad	170-8891	Reverse transcription reagent
0.25% Trypsin with EDTA	Life Technologies	25200072	
PBS without Ca/Mg ²⁺	Sigma	D8537	
0.5 M EDTA	Bioshop	EDT111.500	
HBSS	Life Technologies	14175095	
1 M HEPES	Life Technologies	13630080	
BSA fraction V (7.5%)	Life Technologies	15260037	
Max Efficiency DH5α competent cells	Invitrogen	18258012	
FBS	ES cell qualified		FBS is subjected to a prior testing in mouse ES cells for pluripotency
DMSO	Sigma	D2650	
Glutamax	Invitrogen	35050	
DMEM	Life Technologies	11960069	
Pencillin/Streptomycin	Invitrogen	15140	
Sodium pyruvate	Invitrogen	11360	
Non-essential aminoacid	Invitrogen	11140	
β-mercaptoethanol	Sigma	M7522	
96-well plate	Sarstedt	83.3924	

Sealing tape	Sarstedt	95.1994	
CoolCell LX	Biocision	BCS-405	alcohol-free cell freezing container
CHIR99021	Biovision	1748-5	Inhibitor for F1 ES cell culture
PD0325901	Invivogen	inh-pd32	Inhibitor for F1 ES cell culture
LIF	Chemicon	ESG1107	Inhibitor for F1 ES cell culture